GPS Vehicle Tracker

(GPS+GSM+GPRS)

(LY-H809+)

User Manual

Please read this manual carefully before attempting installation and online activation. Pictures are for indication and illustration purposes only.

1. Specification

GSM: 850/900/1800/1900MHz
GPRS: Class 12, TCP/ IP
Voltage: 7-75VDC
Current:≈22mA（12vDC）
≈12mA（24vDC）
GPS positioning time: Cold start -38sec(open sky)
Warm start -32sec
Hot start 2sec (open sky)
GPS positioning precision: 10m (2D RM)
Temperature: -20℃ ~ +70℃
Humidity: 20% ~ 80% RH
Dimension: 90.0(L)x45.0(W) x13.5(H)mm
Weight: 45g

2.Accessories

power line

Relay

3. Status indicator

3.1 Red LED (power/working status)

LED Status	Meaning
Shine 1s, dark 2s	Exterual power supply to provide power for the device
Shine 0.1s, dark 2s	Internal battery to provide power for the device
Continuously in dark state	Power off / internal fault

3.2 Blue LED（GPS status）

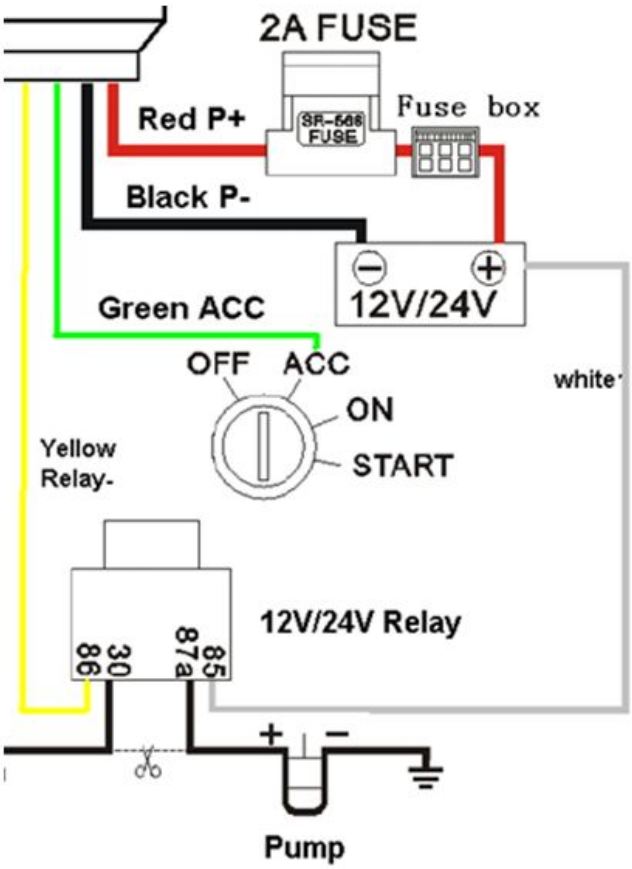
LED Status	Meaning
Shine 1s, dark 2s	Searching GPS signal
Shine 0.1s, dark 2s	GPS located
Continuously in dark state	GPS not located

3.3 Yellow LED(GSM status indicator)

LED Status	Meaning
Shine 1s, dark 2s	GSM initialization
Shine 0.1s, dark 2s	GSM conversation/Start GPRS
Continuously in dark state	No GSM signal

4. H809+ interface introduction

5. Device wiring diagram:



Notes of the relay wiring

The relay wiring of pump: oil connectors of both ends are a fine white line (85) and a fine yellow line (86). The fine white line (85) is connected to vehicle Negative power (-). The fine yellow line is connected to the device relay control line.

Cut off the positive connection line of the pump; then connect in series to the relay N.C. contact (thick green line 87a) and the other end to relay COM contact ((thick green line 30).

6. Cautions of device wiring

6.1 The standard voltage is 7V-75VDC. Please use the power line which provided by the manufacturer. The red line is the positive. The black line is the negative. The negative should earth alone or link iron during installing. Do not connect it to other ground wire.

6. 2 ACC line (Green) is connected to the ACC switch of the vehicle. Please

make sure to connect the ACC line. The tracker will decide whether to enter ignition detection according to ACC status. If do not connect to ACC line, the device will enter ignition detection status. If the vehicle vibrates when moving, it will activate the vibration alarm. If there is no need for the theftproof function, connect the ACC line to the positive in parallel and keep high level.

6.3 Tele-cutoff (petrol/ electricity) control line (yellow) is connected to pin 86 of the Tele-cutoff (petrol/ electricity) relay (equal to the yellow line of the relay socket).

7. Function setting

7.1 Location search methods: GPRS background/ SMS
7.2 The based service platform:

7.3 Set the service center number:
If you want to use SMS to set terminal's working parameter, you must set the service center number of the SIM card first. Terminal only accept SMS instructions of the service center number, you can set your mobile phone number as the service center number. In order to ensure the safety of users,you must use the password to set service center number. The initial password is "123456". Password can be modified.
Service center number set instruction:
pw,123456,center,00000000000#
Example: pw,123456,center,13800138000#
If the service center number is set successful, the terminal will reply: Master command set successfully!
If the password is incorrect, the terminal will reply: "password mistake!"
Note: you can only set one service center number.

7.4 Delete the service center number
Instruction: pw,123456,center,d#
If the instruction is set successful, the terminal will no reply message.

7.5 Modification of password
Instruction: pw: new password (6 digits)#
Example: pw, 888888#
If the password is modified successful, the terminal will reply: "password success! Password for 888888".
If the setting is incorrect, then reply "password format error!"
The default password is "123456".

7.6 Inquire the parameter setting

Instruction: check#
Reply Message: SN:1234567890,interval,upload:15,sleep:10,
SN:1234567890-- Serial Number
upload—GPRS Data upload interval.
sleep—working time before enter sleep if the

7.7 Modify the upload interval time of GPRS data

The upload interval time of GPRS data can be set to between 10s and 18000s.The default setting is 15s.

Instruction: upload, Timing time (in seconds) #
Example: upload,15#

7.8 Working time before enter sleep setting

The default working time before enter sleep is 10 minutes, set range: 1-1800 minutes
Instruction: sleep, Timing time (in minutes) #
Example: sleep,10#

7.9 Language and time zone setting

The terminal provide the Chinese and the English language, the different areas of time according to the time zone setting.
Instruction: lang,x,zone,n#
Language options X: 0 is English, 1 is Chinese,
Time zone n: East eight area for 8, west three areas for -3, the default language 0, time zone -3.

7.10 Set configuration of H809+

7.10.1 APN setting

Indosatgprs is the APN of the Indonesian operator Indosat, please replace it by the local one. You might need to give a call to the local operator to ask them what their APN is.
If the APN needs login password
The SMS is as following:
apn,<apn>,user,<user>,pd,<password>,plmn,<pimn>#
e.g.: apn,cmnet#
Reply information for successful setting: OK

7.10.2 IP setting

After the success of APN settings, to send the following message setting device to a IP address：
ip, <ip>,port, <port>#
e.g.: ip,211.154.154.230,port,6969#
(If you use the manufacturer's server, sending the information)

7.11 Operation of device

7.11.1 Oil cut-off

When a vehicle is in an emergency, to the terminal SIM card send command to cut off the oil and electricity.
Short message instruction format: relay,1#

7.11.2 Restoring Oil

When the vehicle is dangerous to lift, to terminal SIM card send command to restore oil electricity.
Short message instruction format: relay,0#

7.12 Restart terminal

Instruction: reset#
When the terminal received the instrution, it will be restart terminal after 1 min.

8、Terminal user's manual

8.1 Location check

8.1.1 Address check by SMS

Instruction: where#
If GPS fixed success, the terminal replies Address.
If GPS fixed failure, the terminal replies: "unable to get the correct GPS data, please try again!"

8.1.2 Location check by Google map

Instruction: url#
If GPS fixed success, the terminal reply: Google map link
If GPS fixed failure, the terminal replies: "unable to get the correct GPS data, please try again!"
If your mobile phone can connect to the Internet, you can open the Google map link to check the position of the terminal; also can check the position by the browser of computer for input the Google map link.

9. Method of installation

9.1 Preparation before installation

1) Open the packing box to check whether the type of device is correct and whether the accessories are included.
2) This product is a high-tech electronic device, installation should be undertaken by a professional.
3) Please follow the following procedures to install your H809+. During installation, there should be no power to the device.

9.2 Installing SIM card: each H809+ needs to insert a GSM SIM card.The SIM card used should be enabled for GPRS.
1) Testing SIM card: to test SIM card, please install it into a normal GSM mobile and ensure it can send and receive SMS, and enables for GPRS.If

there is an access password, or pin, please cancel it; Testing GPRS network connection
2) Installing SIM card: Remove the upper cover of device, insert SIM card as shown then replace cover, lock the shell with 3 bolts.

9.3 Selecting installation place and fixing it. There are two kinds of installation: covert and non covert. If you need the covert installation, please refer installation to an auto electrical contractor.
NOTE:
1) To prevent theft of the H809+, the device should be installed as covertly as possible.
2) Avoid placing the H809+ close to higher power electrical devices, such as reversing radar anti-theft device or other vehicle communication equipment;
3) The H809+ should be fixed into position with cable ties or wide double-side tape.
4) Your H809+ has built-in GSM antenna and GPS antenna. During installation, please make sure the receiving side face is up, with no metal object above the device to interfere with GPS reception. The following places are suggested for nstallation:
- under the dash board below the front windshield;
- in the parcel shelf in the rear;
- in the front bumper(non-material face), please ensure the device cannot get wet;
- Under the wiper version (non-metal), please ensure the device cannot get wet;
Notice:
if the windshield is pasted with metal thermal-protective coating, it may affect the performance of the device. In this case, please change the installation place after consulting the professional.
5) Non Covert Installation,
Firstly fix the H809+ on the dash board below windshield.

10. Cautions of device wiring

10.1 The standard voltage is 7V-75V, the red wire is the positive, the black wire is the negative.
10.2 Please connect the black wire to ground.
10.3 After connecting the power cord, run the power cord plug to the device. After installation, supply power to device.
10.4 Covert installation: car battery cord is standard, with 1A FUSE for short-circuit over current protection.
10.5 Non covert installation: cigar lighter cord is optional, with 2A FUSE for short-circuit over current protection. Please contact your dealer if this mode is needed.

11. Power on/off

11.1 The H809+ will power on automatically when connected to power. During normal operation, red power LED flashes, while blue GPS LED and green GSM LED keep Bright1 seconds dark2 seconds. During signal searching process, GPS or GSM LED will flash. If there is no light presenting on LEDs, the device is not working normally.
11.2 The device will power off after power is disconnected.
11.3 Side key function
At normal-work indication status, press the side key, all the three LEDs will extinguish and then the H809+ will enter covert working mode. Press the key again, the three LEDs will go back to normal-work indication status.

12. GPS troubleshooting

12.1 If GPS can not receive the signals normally, please drive to the open areas for positioning. Generally, it needs 1-2 minutes to receive the first coordinates. If the data can not be received after 2-3 minutes, please check the installation position of the device, making sure it is not being shielded by any metal.
12.2 If GSM can not receive the signals normally, please check whether SIM card is installed correctly or there is no GSM signal at the location you are, such as a basement parking, please drive to a place covered by GSM signal reception.
12.3 If the red LED does not work when power is connected, please check whether the fuse is blown. If so, please replace the fuse.
12.4 If the three LEDs do not turn on when power up, press the down side key, if the three LEDs recover normally, the device is working normally.
12.5 If you have enabled the web based tracking application, and the H809+ displays off-line on the platform, please check 3 LEDs status indicators first. You can check the status of the SIM card when you are in an inconvenient situation. Please refer to the following steps:
1). Call the SIM card number of the device to check whether you can get through.
2). Check whether the SIM card supports GPRS and a local APN.
3). Check the GSM/GPS reception area.
4). Check whether your SIM card charge is overdue.
5). Check if the connector and device is loose or the fuse has blown out.
12. Web Based Tracking Online activation
The GPRS web based tracking platform allows real time tracking with the latest Google maps. There is also a playback feature that allows you to view where the vehicle has been for up to 30 days in the past making it ideal for fleet management